

AE015929.txt

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AE015929.txt

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LVFRHLLIGELGKKFNFIVMGVISALSFTYIHVSDAKSPFEFGAYLILAIALVYVYLK
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FLFSEETGDLFSMKVIALSTTIVGVSFIIISLIIRAIVYKTTKQSLDEVPNNYLSHI
QDEEPSQEDASSTSNHDVSSKDETKQQDIDNDKHQSKKPNKSDDALTTSNYKEDASSV
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gene
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gene
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AE015929.txt

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/protein_id="AAO05592.1"
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/db_xref="GI:27316419"

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/db_xref="GI:27316420"

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AE015929.txt

CDS
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gene
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CDS
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CDS 1997453..1997917
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/old_locus_tag="SE1962"
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AE015929.txt

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      /db_xref="GI:27316431"
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CDS   complement(2000615..2001253)
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      /old_locus_tag="SE1966"
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      /protein_id="AA005607.1"
      /db_xref="GI:27316432"
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AE015929.txt

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AE015929.txt

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CDS complement(2032547..2032933)


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AE015929.txt

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gene complement(2065783..2065962)

AE015929.txt

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AE015929.txt

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 MISHNPSILKLND DAVAYTEDVYDFWRPTGHQYPLVAGALSKDAYIKSFQESWNEYAR
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PHLYFETSAILITLILLGKYLEAR AKSQTTNALSELLNLQAKEARVIKENKE
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AE015929.txt

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gene complement(2237072..2237821)
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gene	complement(2239297..2240406) /locus_tag="SE_2188" /old_locus_tag="SE2188"
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gene	complement(2240403..2241587) /locus_tag="SE_2189" /old_locus_tag="SE2189"
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gene	complement(2241715..2241813) /locus_tag="SE_2190" /old_locus_tag="SE2190"
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gene complement(2249301..2250845)
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QRYLDLITNEDSTQTFINRSKIIQEMRNYLNKQGFLEVETPMMHQIAGGAAARPFVTH
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ADYHDIMDLTENMVRHIAQEVFGSAKVQYNDEEIDLESSWKRLHIVDAVKEVTGVDFY
NVNSDEEAIRLAKEHDIEITENMKYGHILNEFFEQKVEETLIQPTFIYGHPIEISPLA
KKNPNDERFTDRFELFIVGREHANAFTELNDPIDQRQRFEAQLVEKEQGND EAHDMDE
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gene complement(2340747..2341226)
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/old_locus_tag="SE2267"

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/old_locus_tag="SE2267"
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/transl_table=11
/product="2-amino-4-hydroxy-6-
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/protein_id="AAO05909.1"
/db_xref="GI:27316734"
/translation="MVKAYLGGLGSNIGNRELQLNEAIKILHDYQGQIQVTQVSHIYETE
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gene complement(2341227..2341592)
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CDS
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 /protein_id="AA005910.1"
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gene
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 /db_xref="GI:27316736"
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 LAGIPHNKIWLDPGIGFPKTRREENEVMARLDELVATEYPLVLLATSRKRYIKEMMNQD
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gene
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CDS
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gene
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CDS
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 /old_locus_tag="SE2271"
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 /db_xref="GI:27316738"
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 LGVLVNPDNSIKAAGGFIIQVMPGATDETVTKLEEAISQMPPVSKLIEQGLTPEGILN
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gene
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CDS
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 AGEAGAPFFSISGSDVFEMFVGVGASRV RDLFENAKKNAPCIIIFIDEIDAVGRQRGAG
 VGGGHDEREQTLNQLLVEMDGFGENEGIIIMIAATNRPDILDPALLRPGRFDRQIQVGR
 PDVKGREAILHVHAKNKP LDETVDLKAISQRTPGFSGADLENLLNEASLIAAREGKNK
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 PRGQAGGYAMMLPKQDRFLMTEPELLDKICGLLGGRVSEDINFGEVSTGASNDFERAT
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 EQYERCKQILLEHEEQKLIAKTLLSEETLVAEQIQSLFYDGVLPEDVDYSAKVVVKN
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gene
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CDS
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gene
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 LKKTEILAYQYANQIPYEDMSNQDRKYVRNDIRQRIIPAINENPHLNAHQLLKLDW
 HDIELQSLKEQAETFINNEVSKSKYLTYSFSRTAFNELNVN IKSVMMDLLFEKLDCHL
 AMPQHAYDEWFEQIRNDKSQFN IHTDEWIIQIAYDKLIIMAKSEMDQYILDRICIRK
 PGTYEFNDYQIDIHPDL PQQLYPLTVRVRQNGDVYKLNQKQGHKKVSRLFIDKKVTLA
 ERQRIPLIINQENAVLAIGDLYVKENFKEFIIISNNGDEL"

gene
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CDS
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 complement(2349581..2349982)
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gene /old_locus_tag="SE2275"
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/db_xref="GI:27316742"
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CDS complement(2350076..2350477)
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/old_locus_tag="SE2276"
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/db_xref="GI:27316743"
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ILILLVLLVIQRHNNDQDAVERKEKETEFQKQQDEEIALKEKLNNDKDYIEKIARD
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gene complement(2350501..2350764)
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CDS complement(2350501..2350764)
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gene complement(2350761..2351951)
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/db_xref="GI:27316745"
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QVYSVMIAADLKLTLMERYPDDFNVKIITGSHSDGAHVIECPLYEIDRYDDYFNNLTS
LFIPKINEDTLLYQDFDYAVQTI DILLVDNEKGCPWDKVQTHDSLKRYLLEETFELFEA
IDNEDDWHMIEELGDILLQVLLHSSIGKKEGYIDIKEIIESLNTKMIHRHPHIFGNAH
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EKNS"

gene complement(2351948..2353489)
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LIIVAIIMFSMKHWSIYQAGALAILASSIGFLGSMYLLKKPLKLCYRFNNTSIQ
WKQLFISISIFALSQILIVILWQVVDSTFIIRLLQHSGLAFKEAIIQKGIYDRGASFIQ
MGLIVTTTFSFVLIPLLTQAIREHNQIHMNRYANASIKITVVISTAASIGLINLLPLM
NVVFFKSNHLTLTSLVYMFTVICVSLIMMNISLLQVQTSIRPIIMGVIIGILSKIILN
VILIPFWGIVGASVSTVLSLLLFVILQVAVLKYYRFNRISLFIVKLILGMIIMSIVV
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RGRRS"

gene complement(2353479..2356988)

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/codon_start=1

/transl_table=11

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/db_xref="GI:27316747"

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YRRESVVSHTGEFSLRGGIIDIYPLIGTPVRIELFDTEVDSIRDQFVETQRSNDNINQ
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HQLLRRLVSFMYEKPSTLIDYFQKNAIIVVDEFNRKETEETLTTEVEDFMSNLIESG
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SEGFELPYMQLVVITERELFKTRQKKQRKRTKISNAEKIKSYQDLNVGDYIVVHHG
VGRYLGVETLEVGDTHRDYIKLQYKGTDOQLFVPVDQMDQVQKYVASEDKSPRLNKLGG
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SKSIDEIKGDMERARPMRDLCCGVDGYGKTEVAVRAAFKAVMDGKQVAFVPTTILAQ
QHYETLLERMQDFPVEIQLVSRFRTAKEIRETKEGLKSGYVDIVVGTHKLLGKDIQYK
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IAVAHQMTTERDLEETMLSFINHEYDILVTTTIIETGVDVNPANTLIIIEADRFGLSQ
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GAGNLLGKQHQGFIDSVGFDLYSQMLEEAVNEKRGIKEESPDAPDIEVELHLDAYLPA
EYIQSEQAKIEIYKKLRKVETEEQLFDVKDELIDRFNDYPIEVERLLDIVEIKVHALH
AGVELIKDKGKSIQIILSPKATEDINGEELFKQTQPLGRAMKVGQNNAMNVTLTKSK
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gene complement(2356985..2357557)

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CDS complement(2356985..2357557)

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/old_locus_tag="SE2281"

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/product="peptidyl-trNA hydrolase"

/protein_id="AA005923.1"

/db_xref="GI:27316748"

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RQKGSAGGHNGMKSIIKMLGTDQFKRIRIGVGRPTNGMSVDPDYVLQKFSKEEMIIMEK
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gene complement(2357810..2358469)

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 /db_xref="GI:27316749"
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 EVQVQLVGEAVGAKEGGVVEQPLFNLEVTATPENIPETIEVDISELQVNDSLAVSDIK
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 D"

gene complement(2358639..2359604)
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CDS complement(2358639..2359604)
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 /protein_id="AA005925.1"
 /db_xref="GI:27316750"
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 HFENDPDINPEECVVVSPDHGGVTRARKLADILKTPIAIIIDKRRPKPNVAEVMNIVGD
 IEGRTAIIIDDIIDTAGTITLAAQALKDKGAKEVYACCTHPVLSGPAKERIENSAIKQ
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gene complement(2359748..2361103)
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 SERAIKEISSGIFAFNNRVLFEKLEQVKNDNAQGEYYLPDVLSLILKDGGAKEVYCTE
 DFDEIIGVNDRLMLSEAEKALQQRINRYHMENGVTIIDPSSTFIGTDVVKIGIDTTIEP
 GVRIGGHTTIEEDVWIGQYSEINNSTIHSNANIKQSVINDSIVGENTTVGPFAQLRPG
 SNLGSEVKVGNFVEVKKADIKDGAKVSHLSYIGDAEIGERTNIGCGSITVNYDGANKF
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 K"

gene complement(2361713..2362021)
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 /db_xref="GI:27316752"
 /translation="MKVTDVRLRKIQTDGRMKALVSITLDEAFVIHDLRVIEGNSGLF
 VAMPSKRTPDGEFRDIAHPINSDMRQEIQDAVMKVYDETDEVIPDKNATSDNEESDEA


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           /old_locus_tag="SE2286"
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           /transl_table=11
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           /protein_id="AA005928.1"
           /db_xref="GI:27316753"
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VQEQTQVLENTLVVLKEAGSDLNSVVKATIYISDMNDFQQINQIYGNVFVEHQPARS
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           /old_locus_tag="SE2287"
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           /db_xref="GI:27316754"
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KDNKVTGSTVSYNYVSGSSRKIETMVL SKRTLAENSNVLVDDFMRAGGSINGVMNL
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gene      complement(2363322..2364170)
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           /old_locus_tag="SE2288"
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kinase"
           /protein_id="AA005930.1"
           /db_xref="GI:27316755"
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PSAWVVLAKPNIGISSPDVFKALDLTEEHIHNEKCKQALENNDYHLLCNSLSNRLEP
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LVRLLG"
gene      complement(2364563..2364826)
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           /db_xref="GI:27316756"
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gene      complement(2364926..2365816)

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 /db_xref="GI:27316757"
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gene
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 /old_locus_tag="SE2292"
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 /db_xref="GI:27316759"
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 PSDVQKEVFQKQIALAKRVQLPIIHNRATQDCIDILIEEHAEVGGIMHSFASPE
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gene
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AE015929.txt

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CDS complement(2370629..2371354)
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GGRFIMVHRAERLMDVLT ELRHGKIEPKALTLVYSKHDKPAQTIVVEGRKGGNQGLDI
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gene complement(2371450..2371767)
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CDS complement(2371450..2371767)
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/transl_table=11
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gene /db_xref="GI:27316764"
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CDS complement(2371814..2372617)
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gene complement(2372619..2373545)
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CDS complement(2372619..2373545)
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 /db_xref="GI:27316766"
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 EMSIARPVAEMLSTYTTQIEAASSLNEEFDLVTLRKSIIRWCLILSNKAMALIGVIE
 LLKQAKNRKLQLLTLSAVNGFFEDIMHAKIEMDNYYTFSDLTEEIENYANQLTFNQLI
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 /old_locus_tag="SE2300"
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gene complement(2374214..2374825)
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 /db_xref="GI:27316768"
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gene complement(2374829..2376166)
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CDS complement(2374829..2376166)
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DLLVNMGFTVIEPEDPLKLVVSFEGVEGYDVQKWFEDKEIYVELADMYQVLLVPLWH
EGDKFPFKLLIEKIREINVPKKCTRDIKPLNFMTGFSEYKTVHFQNTKEVSIKRAEGK
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gene complement(2376195..2376728)
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CDS complement(2376195..2376728)
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/db_xref="GI:27316770"
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gene complement(2377205..2377319)
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rRNA complement(2377205..2377319)
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gene complement(2377479..2380311)
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rRNA complement(2377479..2380311)
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gene complement(2379311..2379424)
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CDS complement(2379311..2379424)
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/db_xref="GI:27316771"
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rRNA complement(2380573..2382126)
/locus_tag="SE_r16"

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gene /product="16S ribosomal RNA"
complement(2382901..2383497)
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CDS complement(2382901..2383497)
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LYHVLHGSISPMDGIGPEDINIPALVERLKNDEVKELILAMNPNLEGESTAMYISRLV
KPIGIKVTRLAQGLSVGGDLEYADEVTLSKAIAGRTEM"

gene complement(2383504..2383821)
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CDS complement(2383504..2383821)
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PGM"

gene complement(2383910..2385616)
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/db_xref="GI:27316774"
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EIRNIRDVKVYAPSESKYKVYIIDEVHMLTTGAFNALLKTLLEPPAHAI FILATTEPH
KIPPTIISRAQRFDFKAISSDQIIDRLKYVANSQSLDYDDAALEFIAKASEGGMRDAL
SIMDQAI AFGDERLTLQDALNVTGSVDEAALNELFNDIVKSDVKA AFNRYHHFISEGK
EVNRLINDMIYFVRDTIMNKTSNESVHFESLIHFDLDMLYRMIDIINDTLVSIRFSVN
QSVHFEVLLVKLAEMIKTQPQT VQNVATASVANE PDNEMLLQRLEQLENELKTLKEQG
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DKKSLVSLLLNSEPVAASEDHVLVKFDEEIHCEIVNKDDEKRNNIESVVCNIVNKT VK
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ED"

gene complement(2385683..2386213)
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CDS complement(2385683..2386213)
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/protein_id="AA005950.1"
/db_xref="GI:27316775"

AE015929.txt

gene /translation="MHIYLSLTLEVDYETSLNSIENNYNLNPESWQDRARVKNLRKL
ESYNYELEVIKNELENEIGHVLAEVKLSSKNKKAIALAIGALSVDKSIRNOGLGQA
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complement(2387371..2388366)
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VGTIFALIYTAIEAIFNIPTITYGAWTGISLHEIAQVVLAAAGIGGSEAMTFALLGKLG
RVFLLIPLSIVLILYMRYKSHSSQVQKIDIPYFLIGFIIMACINTFVPIPSLLMNII
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gene 2388481..2389302
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/old_locus_tag="SE2310"

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/old_locus_tag="SE2310"
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DEMVIYKKSIIQPRMDICFVREKSGSTRFYQEVGLSELKLNPLYIEINNIKIIKQMV
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gene complement(2389380..2389472)
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tRNA complement(2389380..2389472)
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gene complement(2389535..2390998)
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CDS complement(2389535..2390998)
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FKTGVEIGVDVSRETLEENYDAIILCTGAQNARDLPLEGRMGSGIHFAMDYLTETQY
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gene complement(2391016..2395512)

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CDS complement(2391016..2395512)
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/db_xref="GI:27316780"
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AE015929.txt

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MGAILIHDQYGAISLFFLMTCAIIISTSFLLLLVTGWHSRITLITIVSTLIGTFLCVGI
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CDS 2400356..2401861
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/old_locus_tag="SE2318"
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alpha-glucosyltransferase"

AE015929.txt

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AE015929.txt

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 SHIDYFVAGVSGGTFTGVAQHLKTYDVKNYIVEPEGSVLNGGVSHPHATEGIGSEKW
 PSFLEKELVDGIFTVADKDAFN NVKLVANKEGLLVGSSSGAALQGALELK KSIQNGVI
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gene
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CDS
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AE015929.txt

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LMNELQKQDVTLENIDTSI"
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FYFIFLLLFLFAALTSSISLLELNVSNFTKNDNSKRQKVAIIGSILVFIISIPATLSF
SSLSHLRFGAGTIFDNMDFIVSNILMPLGALGTTLVVGQLLDKKLLKESFGKDKFNLF
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gene      complement(2410850..2411092)
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gene      complement(2411107..2411835)
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CDS       complement(2411107..2411835)
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LAEHFDLERIAVMSAPHKKRESEIAWRLERYGHRMNEILSLSEEERRHQMETILSYDK
EIEVFQGVIDEIMAYLANITVPVNIMYGEEDDPLYAQAQYIYDNVNSQDKELLKFEK
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gene      complement(2411942..2412613)
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CDS       complement(2411942..2412613)
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          /old_locus_tag="SE2329"
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CDS       complement(2413155..2413523)
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gene      complement(2413548..2413664)
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gene      complement(2413636..2416203)
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AIEYAFQELGVKEEHRQSYIESHLLSLPGWAGIMYHRSQTQSNDAYLITDYVAIRLSI
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gene      complement(2416221..2417717)
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CDS       complement(2416221..2417717)
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AE015929.txt

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gene complement(2421561..2422589)
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gene 2423919..2424536
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/old_locus_tag="SE2341"
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/locus_tag="SE_2341"
/old_locus_tag="SE2341"
/codon_start=1
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/protein_id="AA005984.1"
/db_xref="GI:27316809"

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AE015929.txt

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/old_locus_tag="SE2342"
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/transl_table=11
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VLLILIIIVGVTACTGTFVNEVDKEINEEGKLDKDKDTIKSIGETTEIDGVSFTLDNA
SYTEERNEFADVQADKVIKVDMTVKNNSEEEIPVGGDIKVVYVDGKQAKSYPIDNQLID
SLSPNREISGSEGFANGNPKKIELEFQPLTSFSNKRYIYNIKPE"

gene 2425349..2425504
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CDS 2425349..2425504
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/old_locus_tag="SE2343"
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/db_xref="GI:27316811"
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KKTNEDKKSGEQKKSQEKKNKSMQESATNEQVQSQQQTNNNQQQYSDEYLANNSVSN
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QISQYEFNDRVSDVMNNEIDNQQP"

gene 2425660..2425908
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/db_xref="GI:27316812"
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SGLKDTN"

gene 2425928..2426455
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/old_locus_tag="SE2345"

CDS 2425928..2426455
/locus_tag="SE_2345"
/old_locus_tag="SE2345"
/codon_start=1
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/db_xref="GI:27316813"
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ALSYRTISLTTRSCDILRKVMLEYKKAQWKNMYVDRDFIFTNHHKGNPISLTSINRNI
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gene 2426458..2427363
/locus_tag="SE_2346"
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AE015929.txt

CDS 2426458..2427363
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 DDVNEDGYTIVQDFINNHNGLDLEKIFSSVIKRDGTVIPSFQKYDDPPIWVCLELMTF
 GQFSAFVEFYSSERTNDSELRKAGKFIKFAKNIRNKCAHSQPILLNLNPRKNFTVEREL
 KKIGRKQRLSDKNLKVLAIIDILALLVLHLSKYCSKGIKDNRKNDLLTFKQRKNRYFHH
 YRNVPSLSFFFLSLNKMIDYYVQNN"

gene complement(2427604..2429145)
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 /old_locus_tag="SE2347"
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 /protein_id="AAO05990.1"
 /db_xref="GI:27316815"
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 EIKRMNPKGIILSGGPNSVYEEGSFTIDPEIYNLGIPLVLCICYGMQLTTKLLGGKVER
 ANEREYGKATINAKSDELFFGLPSEQTVWMSHSDKVIEIPEGFEVIADSPSTNYAAIE
 DKKRRIYGVQFHPEVRHTEYGNLLRNFRVRCNCTGEWTMENFIEIEIEKIRQQVGN
 RKVLCAMSGGVDSVVAVLLHKAIGEQLTCIFVDHGLLRKGEODMVMEQFGEFGDMNI
 IRVNAQERFMSKLGVSDDPERKRKIIGNEFVYVFDDEAAKLTVDVFLAQGTLYTDVIE
 SGTAKTAQTIKSHHNVGGLPEDMEFELIEPINTLFKDEVRLGIELGIPEHLVWRQFPF
 GPGLGIRVLGEITEDKLEIVRESDAILEVIREEGLERDIWQYFTVLPGIQSVGMGD
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 TIEWE"

gene complement(2429312..2430778)
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 /protein_id="AAO05991.1"
 /db_xref="GI:27316816"
 /translation="MWENKFAKESLTFDDVLLIPAASDVLPSDVLSDVLSVKLSDKIKLNI
 PVISAGMDTVTESKMAIAMARQGGLGVIHKNMGVEEQADEVQKVKRSENGVISNPFLL
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 NLITAPVGTTLDEAEAILQKHKIEKLPLVENGRLEGLITIKDIEKVLEFPYAAKDEHG
 RLLAAAAIGTSKDTEIRAQKLVEAGVDALIIDTAHGHSKGVINQVKHIKETYPEITVV
 AGNVATAEATRALFEAGADVVKVGIGPGSICTRRVAGVGVPQITAVYDCATEARKHG
 KAIIDAGGIKFSGDIKALAAGGHAVMLGSLLAGTEESPGATEVFQGRQYKVYRGMGS
 LGAMEKGSNDRYFQEDKTPRKFPVPEGIEGRTAYKGPLQDTIYQLMGGVVAGMGYTGSE
 NLKKLREEAQFTRMGPAGLAESHVQITKESPNYSF"

gene complement(2430816..2432084)
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 /old_locus_tag="SE2349"
 /codon_start=1
 /transl_table=11

AE015929.txt

gene /product="xanthine permease"
/protein_id="AAO05992.1"
/db_xref="GI:27316817"
/translation="MKNFILSVQHLLAMYAGAILVPIIVGTSLKFSAEEIAYLVTVDI
FMCGVATFLQANKVTGTGLPIVLGCTFTAVAPMILIGQTKGLDVLYGSLLISGILVVL
IAPFFSYLVKFFPPVVTGSSVVTIIGINLMPVAMNYLAGGEGAKNYGDTKNLILGGVTL
LIILILQRFTKGFLLKSIAILIGLAIGTALAGIFGMVDIKQVGDHWFVGFVPPFRFSGF
GFDVSSILVFFIVAVVSLIESTGVYHALSEITGRKLERKDFRKGTYAEGLAIIILGSIF
NAFPYTAYSQNVGLVSLGAKKNNVIYGMVILLICGICPKLGALANIPLPVLGGAM
IAMFGVMVAYGVSIILGNINFQNNLLIIAISVGLGAGISAVPQAFKGLGEQFAWLTQ
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complement(2432084..2432662)
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/old_locus_tag="SE2350"

CDS complement(2432084..2432662)
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/old_locus_tag="SE2350"
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/product="xanthine phosphoribosyltransferase"
/protein_id="AAO05993.1"
/db_xref="GI:27316818"
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KTSTVIVSEEFGLGADDKVLIIDDFLANGDASLGLNDIVKQANATTVGVGIVVEKSQFN
GRQRLEDAGLYVSSLCKVASLKGKVTLLGEA"
2433259..2433666

gene /locus_tag="SE_2351"
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CDS 2433259..2433666
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/old_locus_tag="SE2351"
/codon_start=1
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/protein_id="AAO05994.1"
/db_xref="GI:27316819"
/translation="MAKITVNNQDELYKVINQKKSEGYLETELAVISKSKLHLLDDLH
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2433794..2434459

gene /locus_tag="SE_2352"
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CDS 2433794..2434459
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/old_locus_tag="SE2352"
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/db_xref="GI:27316820"
/translation="MEFKVIESAKDPLFNEALKLYDDKLDIGLDEDSKIFKRSLNNK
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HPNQNEETPQKVDLFIKANIELTKDIYGTSVKSNYILKYVFANGISREIYPLLKEM
NLR"
2434585..2435487

gene /locus_tag="SE_2353"
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/codon_start=1

AE015929.txt

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 LRSEIQKMREERQMLGQMINQVHQQQELKELQTDITTKLDSNAQSLKSIQNSQEAIQ
 SAQEQQSKDIAKANELKDSSELRSHFDSMSNSASISQSNVASQSTTASLSQSESANDSM
 SSSLSESNSITSESNTNSKSEIESKSTSTSEFLSESGSVSNSEKSESISHSQSTSATP
 SSQSTYQQPKKEKKGFFARLFNL"
 2435796..2437184
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 /old_locus_tag="SE2354"

CDS
 2435796..2437184
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 /old_locus_tag="SE2354"
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 /protein_id="AA005997.1"
 /db_xref="GI:27316822"
 /translation="MEILFTVINIVILLVFLIMLNIMARKHVSFPRKRVFTALAIQIVF
 GIVLHLIYGAEKTLQSTDFSIWGDGYVALLQMIVMPLIFISIVAASFQIGKEF
 AKIGSYIFMFLIGTVAIAAIVGIFYALIFGLDASSIDLGSAEHSRGTEISKQAKDLTA
 NTLPPQILEVFPSPNPLDFTGQRTTSTIAVVIFATFVGFAYLRVARKQPEHGSLLKRG
 IEAIYSIVMAIVTFVRLTPYGILAIMASTLATSDFSIAIWLTKGFLIASYAALITMYI
 IHLIILSVLGINPVKYVKKTIEVLIFAFSTSRSSAGALPLNVQTQTKRLGVPEGIANFS
 ATFGLSIGQNGCAGIYPAMLAVMVAPVANVEIDFQFVVTLIAVVIISSFGVAGVGGGA
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gene
 complement(2437308..2438072)
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 /old_locus_tag="SE2355"

CDS
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 /old_locus_tag="SE2355"
 /codon_start=1
 /transl_table=11
 /product="nitro/flavin reductase"
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 /db_xref="GI:27316823"
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 SYLQTYSIIGVEDPSIKARLKEVSGQPYVLDNGYLFVFLDYRHHVLVDEVAASNMET
 SYGSAEGLLVGTIDVALVAQNMVAEADMGYGIVYLGSLRNDVARVREILNLPDYTFP
 LFGMAVGEPSEENGSPKPRLPFKHIFHKDQYDANQHQRKELEAYDQVVSEYYKERT
 NGVRTENWSQIETFLGRKTRLDMLDELKKAGFIKR"

gene
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CDS
 2438204..2438983
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 /protein_id="AA005999.1"
 /db_xref="GI:27316824"
 /translation="MTLTNKEVAKVLFKAYRYKKPIDFISENYQLNEEEAYHVQEELI
 DQLTFKDHSTVTGYKVSMTSKATQAIANTNEPAYGTLLSNQIVNDGASVLSSELFSPL
 LEPEIIFIVQEDLPYDADLETIRYHTRIAPGIEIPDARYKNWFPNFTLSDLISDNTAT
 GLVVVGDPVDGLDNDAFANVHLNLYKDNKCIATGESSEVLGNPLNAIHWLIKLLHTHG
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gene
 2439428..2439997

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CDS
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/old_locus_tag="SE2357"
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/transl_table=11
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/protein_id="AA006000.1"
/db_xref="GI:27316825"
/translation="MSLINKEILPFTAQAYDPKKDEFKEVTQEDFKGSWNVVCFYFAD
FSFVCPTELEDLQNQYAKLQELGVNVYSVSTDTHFVHKAWHDHSDAISKLEYSMIGDP
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RQHPGEVCPAKWEEGESLQPLDLVGKI"
gene
2440012..2441535
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2440012..2441535
CDS
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/old_locus_tag="SE2358"
/codon_start=1
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/db_xref="GI:27316826"
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SENIMAVPAVFLDGGQEFNGRMTVQDILTKLGSTQDASEFNDKDPYDVLIVGGGPASG
SAAIYTARKGLRTGIVADRIGGQVNDTAGIENFITYKETTGEFSSNLAEHIAQYDID
TMTGIRATNIEKTDSAIRVTLENDAVLESKTVIISTGASWRKLNIPGEDRLINKGVAF
CPHCDGPLFENKDAVIGGGNSGVEAAIDLAGIVKHVTLFEYASELKADSVLQERLRS
LPNVDIKTSAKTTEVIGDDYVTGISYEDMTTGESQVVNLDGIFVQIGLVPNTSWLQNA
VELNERGEVMINRDNATNPVGIFAAGDVTQKNKQIIISMAGANAALNAFDYIIRN"
gene
complement(2441525..2441653)
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CDS
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/old_locus_tag="SE2359"
/codon_start=1
/transl_table=11
/product="hypothetical protein"
/protein_id="AA006002.1"
/db_xref="GI:27316827"
/translation="MADYMNDIPVSIQFFIIKNRAPTWELCEVKIFMINNVLKINF"
gene
2441796..2442419
/locus_tag="SE_2360"
/old_locus_tag="SE2360"
2441796..2442419
CDS
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/old_locus_tag="SE2360"
/codon_start=1
/transl_table=11
/product="conserved hypothetical protein"
/protein_id="AA006003.1"
/db_xref="GI:27316828"
/translation="MKKRVITYLILALSLTLAACSNTNDNNNQEHHSNAHAPKNAKTL
KEKDIFSSNKKGQKISEKEMKQALEKYLQANSVDLDNKYYMQHKLQSDSNPKITES
QADRLSKLSNLAVKNDLHFKKFIKNNHIPEEYKDPTDRIINYFHALNSTISNVDEIE
KLNYQPQNSINVVDVPTKYSGDVNKKQQDKITTFLLKKKGIDTEVFNK"
gene
complement(2442587..2442685)
/locus_tag="SE_2361"

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AE015929.txt

CDS
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 complement(2442587..2442685)
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 /old_locus_tag="SE2361"
 /codon_start=1
 /transl_table=11
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 /protein_id="AA006004.1"
 /db_xref="GI:27316829"
 /translation="MVDSIAKIINVKRIFIMIFLISFYLEKIYMLY"

gene
 2442639..2443016
 /locus_tag="SE_2362"
 /old_locus_tag="SE2362"

CDS
 2442639..2443016
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 /old_locus_tag="SE2362"
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 /protein_id="AA006005.1"
 /db_xref="GI:27316830"
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 TTIVIMALPALILGIFNHLTCRIISAILQISALMMWGFLVIISLINGQIVIIILMASLT
 ILALLVSSIVTILSVHPSTSDKIN"

gene
 complement(2443017..2443184)
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 /old_locus_tag="SE2363"

CDS
 complement(2443017..2443184)
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 /old_locus_tag="SE2363"
 /codon_start=1
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 /protein_id="AA006006.1"
 /db_xref="GI:27316831"
 /translation="MIELKIYTHIKPFFTRGWGPNKENFTEKFNKQSKLGMGPNKENF
 TEKFNLSCPFI"

gene
 complement(2443376..2443966)
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 /old_locus_tag="SE2364"

CDS
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 /old_locus_tag="SE2364"
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 /transl_table=11
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 /protein_id="AA006007.1"
 /db_xref="GI:27316832"
 /translation="MEIYLVRHGESQSNYDNKHHGYLYFCGQLDVPLTERGIKSAKELS
 VYFKNKYIDNIYLSDLKRTRQTYEELFPYDIPTIYTKTLRERSLGVFEGENKEEVCKD
 KRFEKYFRDPNYKYFRHSFSQKAPQGESYQDVYDRVVTFIENELNQKQKRVVIVAHQV
 VIRCFVYFKMITKEEALATEIHNCYPYLIKKEMKF"

gene
 complement(2443987..2444652)
 /locus_tag="SE_2365"
 /old_locus_tag="SE2365"

CDS
 complement(2443987..2444652)
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 /old_locus_tag="SE2365"
 /codon_start=1
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 /protein_id="AA006008.1"
 /db_xref="GI:27316833"

AE015929.txt

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/translation="MNCKTTTTRRFLMDGLITFIIITLLIIIVPGPDFIIVMKNTINSS
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AHSSVDFSKQALADVRNVSYITSFRQGFLSTSLNPKALLFYVSIFPQFLSNGNIHMKS
EVALFAFSVVVVICLWFLFCVFIFQYIKLLFSRPRFKAIFDYIVGFVLIGLSINLLLS
KSS"
gene      complement(2444879..2444974)
          /locus_tag="SE_2366"
          /old_locus_tag="SE2366"
CDS       complement(2444879..2444974)
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          /old_locus_tag="SE2366"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="AA006009.1"
          /db_xref="GI:27316834"
          /translation="MLMMSNRLSYINYSYQSIQTNKNGVGAF FML"
gene      complement(2445091..2445345)
          /locus_tag="SE_2367"
          /old_locus_tag="SE2367"
CDS       complement(2445091..2445345)
          /locus_tag="SE_2367"
          /old_locus_tag="SE2367"
          /codon_start=1
          /transl_table=11
          /product="conserved hypothetical protein"
          /protein_id="AA006010.1"
          /db_xref="GI:27316835"
          /translation="MFGLIGMIIVGGIIGWIAGLILGKDVPGGILGNIIAGIVGSWVG
TMILGEWGPQLGKIHFALLGSIILIFIISLILKALRKK"
gene      2445567..2445827
          /locus_tag="SE_2368"
          /old_locus_tag="SE2368"
CDS       2445567..2445827
          /locus_tag="SE_2368"
          /old_locus_tag="SE2368"
          /codon_start=1
          /transl_table=11
          /product="hypothetical protein"
          /protein_id="AA006011.1"
          /db_xref="GI:27316836"
          /translation="MQHKNKFQRINQIIQVIGFLSFLAILTIITLNFFIKGHLQGHFE
IGFNISQNVYVVTLLIIVTIICTILSAILNMLSNNKKQNYKH"
gene      2445932..2446063
          /locus_tag="SE_2369"
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CDS       2445932..2446063
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          /old_locus_tag="SE2369"
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          /product="conserved hypothetical protein"
          /protein_id="AA006012.1"
          /db_xref="GI:27316837"
          /translation="MWHINLHILYNLRTKRHIEIEELTTQLNKKNGTHNKPLQIWEW"
gene      complement(2446297..2446539)
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          /old_locus_tag="SE2370"
CDS       complement(2446297..2446539)
          /locus_tag="SE_2370"
          /old_locus_tag="SE2370"
          /codon_start=1
          /transl_table=11

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AE015929.txt

gene /product="30S ribosomal protein s18"
/protein_id="AA006013.1"
/db_xref="GI:27316838"
/translation="MAGGPRRGRRRKVCYFTANGITHIDYKDTPELLKRFISERGI
LPRRVGTSAKYQRMILTAKRRARHMALLPYVKEEQ"
complement(2446584..2447093)
/locus_tag="SE_2371"
/old_locus_tag="SE2371"

CDS complement(2446584..2447093)
/locus_tag="SE_2371"
/old_locus_tag="SE2371"
/codon_start=1
/transl_table=11

gene /product="single-strand DNA-binding protein of phage phi
PVL"
/protein_id="AA006014.1"
/db_xref="GI:27316839"
/translation="MLNRVVLVGRLLTKDPEYRTTPSGVSVATFTLAVNRTFTNAQGER
EADFINCVFRRQAENVNNYLSKGSAGVDGRIQSRSYENQEGRRIFVTEVVCDSVQF
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gene complement(2447116..2447412)
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CDS complement(2447116..2447412)
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/old_locus_tag="SE2372"
/codon_start=1
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gene /product="30S ribosomal protein s6"
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/db_xref="GI:27316840"
/translation="MRTYEIMYIVRPNIIEADAKKALVERFNGILASEGSEVLEEKDWG
KRRLAYEINDFKEGFYNIVRIKTDNNKSTDEFQRLAKINDDIIRYIVIREDDQDK"

gene 2447797..2448606
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/old_locus_tag="SE2373"

CDS 2447797..2448606
/locus_tag="SE_2373"
/old_locus_tag="SE2373"
/codon_start=1
/transl_table=11

gene /product="1,4-beta-N-acetylmuramidase"
/protein_id="AA006016.1"
/db_xref="GI:27316841"
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PAFAYINDYEEQTVKSGDDETATQAWANEMRKLGNKKILFYSYENFMLNHASNAVSSY
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gene 2448680..2448871
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CDS 2448680..2448871
/locus_tag="SE_2374"
/old_locus_tag="SE2374"
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/transl_table=11

gene /product="conserved hypothetical protein"
/protein_id="AA006017.1"
/db_xref="GI:27316842"
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CDS complement(2449104..2450201)
/locus_tag="SE_2375"
/old_locus_tag="SE2375"
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EVPDSRLIKLEEMVQPKKTIPTTFEFTDIAGIVKGASKGEGLGKFLSHIREVDAICQ
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ELRILTQIKEALEDGKPVRSIDFNEDDQKWVNQAQLLTSSKKMLYIANVGEDEIGDKDN
DKVKAIREYAANEDSEVIVISAKIEEEIATLDDEDKEMFLEDLGIEEPGLDRLIRTTY
DLLGLSTYFTAGVQEVRAWTFKQGMTAPQCAGIIHTDFERGFIRA EVTSYEDYVQHGG
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gene complement(2450213..2450416)
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CDS complement(2450213..2450416)
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gene complement(2450437..2451312)
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CDS complement(2450437..2451312)
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GLRSTRINTISGELTILPNGSMGEITNFSITNGTAIVELPVSVDENIDQVEKKLNRLFVS
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gene complement(2451467..2452309)
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CDS complement(2451467..2452309)
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/old_locus_tag="SE2378"
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IIENLQREDLNAIEEAESYKKMMDL NITQQEVARRLGKSRPYIANMLRLQLPKNVA
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gene 2454138..2455313
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CDS 2454138..2455313
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ALYLLQNGTGTAISAYDSWALAKHLKTLVPRFKQSVHNAERLVQFLSQREEISEVYYP
GNNPTHLKQASTGGAVIGFRLKDESKAQKFVDSLTLPLVSVSLGGVETILSHPATMSH
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gene 2455267..2457105
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CDS 2455267..2457105
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IGLQSHLLGLSLIGVNEILAITGDPKSVGHLPGATNVYDVNSKGLTELALRFNKGINT
DGDALKKHTNFNIAGAFDPNVRKLDGAIKRLEKKVASGMSYFITQPVYSKEKIIQVYE
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gene 2457102..2459348
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 FVKLSKGGHQSFEKVELLLPLYKEVLQSLVDAGA EYIQIDEPILVTDDSESYEDITR
 KAYDYFANEGLGKYLVIQTYFERVHLKFLSSLPVGGGLGLDLVHDNGYNLKQIEDGDFD
 QSKALYAGIIDGRNVWAADIEAKKQLIETLQQHTQQQLVIQPSSSLHVPVSLDDETLD
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 THRKSPFAKRKQLQNQRNLNLPDLPTTTIGSFPQTRVRKFRADWKNNRITDAEYQEF
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 PVIYGDVKWTAPLTVKETVYAQSLTDKPVKGMLTGPVTILNWSFERVDVPRKVVQDQI
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 TQIHTHMCYSQFGQIIHAIHDLADVISIETSRSHGDLIQDFEDINYDLGIGLVYDI
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gene complement(2460331..2461515)
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CDS complement(2460331..2461515)
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 /old_locus_tag="SE2384"
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 /protein_id="AA006027.1"
 /db_xref="GI:27316852"
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 AENLVEQYQISRKEQDQFAFDSQQKASRAQQAGVFDAEIVPVEVPQRKGDPLIISQDE
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 DSFGASGVAPSIMGIGPVEAIIHKALKRSNKVINVDVIFELNEAFAAQSI AVNRELQLP
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gene complement(2462361..2462492)
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CDS complement(2462361..2462492)
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gene      2463176..2463781
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                                TEIYDAWNSDTFFSLIKAFELPTNNQIKTF SRGM RMAALTIALSHDAKLLILDEATA
                                GMDVSGREHVL EILEDYLGDDRAILISSHISEDIEQLATQLVFM RDGRIILKESKEVL
                                LSQYGIIDQPV EHFNISNEYLIATRRRNRDRQISLVNNYQKVPDAQPLKTID DATKIIM
                                RGEV"
gene      2464651..2465289
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gene /translation="MKGLTLSIFYTAKKSFFIYLVVGIIAAVVFSFLNPTMNSFLAII
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MILSNQTGSGSMITMLSNTQSYVVYSIYGILGLISIIISYILSIKIFNKQEL"
2465440..2465670
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CDS /old_locus_tag="SE2390"
2465440..2465670
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/old_locus_tag="SE2390"
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gene 2466146..2466610
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CDS 2466146..2466610
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gene complement(2466732..2467280)
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CDS complement(2466732..2467280)
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/protein_id="AA006035.1"
/db_xref="GI:27316860"
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KKVEDSKHFIHSALQQFIDGNGFHCIGIWSNKELIGVIGLHYLDLVNKTTSIGYYLAED
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gene 2467683..2469188
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CDS 2467683..2469188
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/old_locus_tag="SE2393"
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alpha-glucosyltransferase"
/protein_id="AA006036.1"
/db_xref="GI:27316861"
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EQFFTPTQKVKFQKYYPPEHEHPTVQSIIYNTRGVRRFFNDENELLAFAINALYHLGD
VFLCDKNIVTGPIIDQTDTKIPVLAVFHSTHVKNINDIYHSEIKQAYKPVLDNLSRYS

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gene /protein_id="AAO06042.1"
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2480690..2481448
/locus_tag="SE_2400"

CDS /old_locus_tag="SE2400"
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ENIMLPLSVQKFHKYEMEQNYKEVAEALGIYNLGNKYPSEISGGQQQRTAAARAFVHK
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2481438..2483318
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2481438..2483318
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/old_locus_tag="SE2401"
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STEMFGVFKALTALITPFSILFLTIVGAFLFRSSVSLIFKTLKHKHGRVNITDVV
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IAAQFKHKLDQGNLKYHQRTYEVINPKT LSDHVMKSKNGSDMSTNTTSLMMNSHLKGH
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EYVNTLKTDNIVNKM YGFNFNTHKDVKKA EKIA SKVNRNIVSHDEYKKFINQSNGLI
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2483363..2483554
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2483363..2483554
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/db_xref="GI:27316870"
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PVGLLGAYILKRREEKNK"

gene complement(2483626..2485671)
/locus_tag="SE_2403"

CDS /old_locus_tag="SE2403"
complement(2483626..2485671)
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ORIGIN

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